

VERITAS®

SCHMETZ INSIDE



Instruction manual



NIKI DE SAINT PHALLE
1930 - 2002
ARTIST



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www.veritas-sewing.com

Dear Customer,

we congratulate you on your purchase of your sewing machine. You have bought a quality product which has been made with great care and, if serviced right, will serve you well for many years.

Before using it for the first time, we ask you to read the manual at hand carefully, paying special attention to the safety instructions. Persons who are not familiar with this manual must not use the appliance.

We wish you much pleasure and great sewing successes! Questions concerning machine, service and customer care



www.service.veritas-sewing.com

Important safety instructions

When using an electrical appliance, basic safety should always be followed, including the following:

Read all instructions before using this sewing machine.

DANGER - To reduce the risk of electric shock:

1. An appliance should never be left unattended when plugged in.
2. Always unplug this appliance from the electric outlet immediately after using and before cleaning.

WARNING - To reduce the risk of burns, fire, electric shock, or injury to persons:

1. Read the instruction carefully before you use the machine
2. Keep the instructions at a suitable place close to the machine and hand it over if you give the machine to a third party.
3. Use the machine only in dry locations.
4. Never leave the machine unattended with children or elderly people due to they may not be able to estimate the risk.
5. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
6. Children shall not play with the appliance.
7. Cleaning and user maintenance shall not be made by children without supervision.
8. Always switch off the machine if you carry out preparation for work (change the needle, feed the yarn through the machine, change the footer, etc.).
9. Always unplug the machine if you leave it unattended, to avoid injury by expediently switch on the machine.
10. Always unplug the machine if you changing the lamp or carry out maintenance (oiling, cleaning).
11. Don't use the machine if it's wet or in humid environment.
12. Never pull at the cord, always unplug the machine by gripping the plug.
13. If the LED lamp is damaged or broken, it must be replaced by the manufacturer or its service agent or a similarly qualified person, in order to avoid a hazard.

14. Never place anything on the pedal.
15. Never use the machine if the air vents are blocked, keep the air vents of the machine and the foot pedal free from dust, fusel and leftovers.
16. The machine must only be used with designated foot controller, in order to avoid a hazard. If the foot controller is damaged or broken, it must be replaced by the manufacturer or its service agent or a similarly qualified person.
17. The power cord of the foot controller can not be replaced. If the power cord is damaged the foot controller must be disposed
18. The sound pressure level at normal operation is smaller than 75dB(A).
19. Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.
20. Contact your local government for information regarding the collection systems available.
21. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.
22. When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposal at least for free of charge.
23. The appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction. (For outside Europe)
24. Children being supervised not to play with the appliance. (For outside Europe)

SAVE THESE INSTRUCTIONS

This sewing machine is intended for household use only.

Be sure to use the sewing machine in the temperature range from 5°C to 40°C. If the temperature is excessively low, the machine can fail to operate normally.

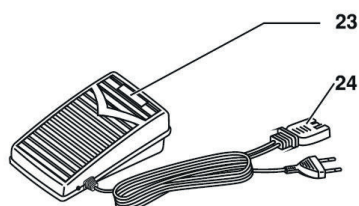
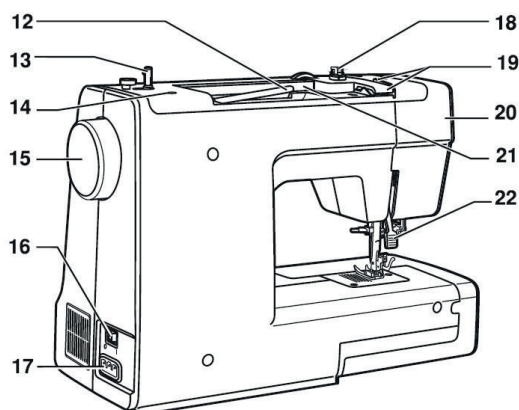
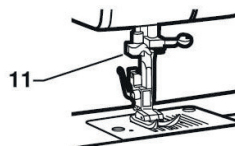
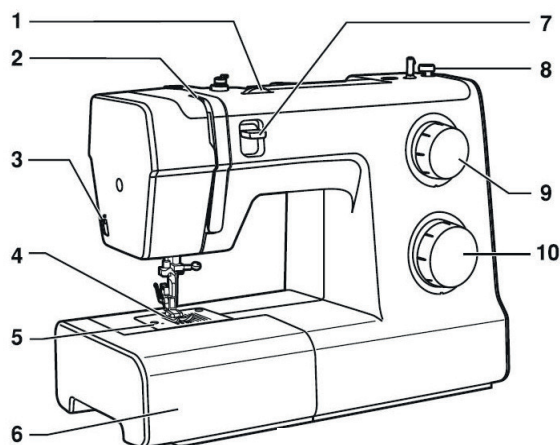
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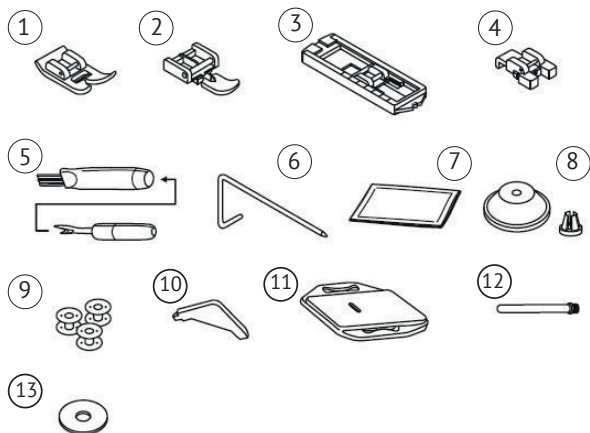
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Principal parts of the machine



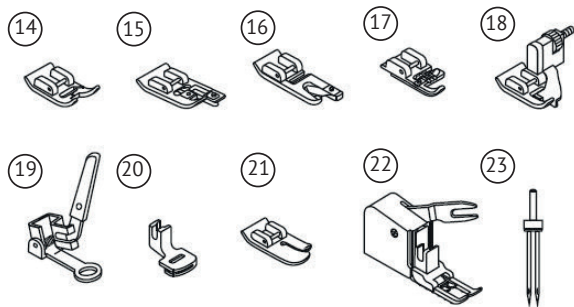
1. Thread tension dial
2. Thread take-up lever
3. Thread cutter
4. Presser foot
5. Needle plate
6. Accessory box
7. Reverse sewing lever
8. Bobbin winder stopper
9. Stitch length dial
10. Pattern selector dial
11. Automatic threader
12. Horizontal spool pin
13. Bobbin winder spindle
14. Hole for auxiliary spool pin
15. Hand wheel
16. Power switch
17. Main plug socket
18. Bobbin thread guide
19. Upper thread guide
20. Face plate
21. Handle
22. Presser foot lifter
23. Foot controller
24. Power cord

Accessories



Standard

1. All purpose foot
2. Zipper foot
3. Buttonhole foot
4. Button sewing foot
5. Seam ripper/ brush
6. Edge/ quilting guide
7. Pack of needle
8. Spool holder
9. Bobbin (3x)
10. L-screwdriver
11. Darning plate
12. Second spool pin
13. Spool pin felt



Optional

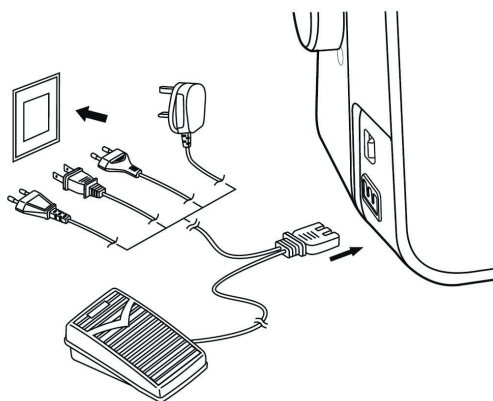
14. Satin stitch foot
15. Overcasting foot
16. Hemmer foot
17. Cording foot
18. Blind hem foot
19. Darning/ Embroidery foot
20. Gathering foot
21. Quilting foot
22. Walking foot
23. Twin needle

Please Note:

- Accessories are stored inside the accessory box.

* Optional accessories are not supplied with this machine; they are however available as special accessories from your local dealer.

Connecting machine to power source



Attention:

Always make sure that the machine is unplugged from power source and the main switch is on ("O") when the machine is not in use and before inserting or removing parts.

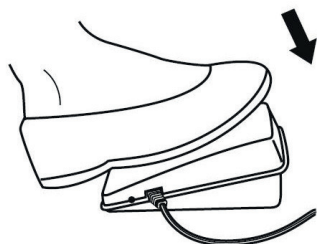
Before connecting the power supply, make sure that the voltage and the frequency shown on the rating plate conform to your mains power. Place the machine on a stable table.

1. Connect the machine to a power source as illustrated.
2. Turn on the power switch.
3. The sewing lamp will light up when the switch is turned on.

Foot Control

With the sewing machine turned off, insert the foot control plug into its connector on the sewing machine.

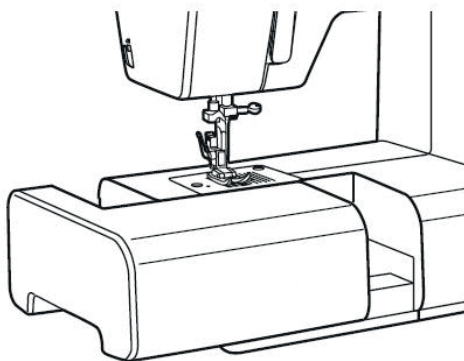
Turn on the sewing machine, and then slowly depress the foot control to start sewing. Release the foot control to stop the sewing machine.



Note:

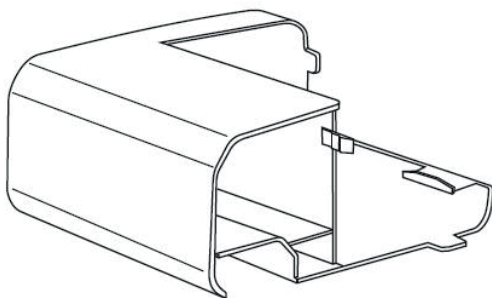
Consult a qualified electrician if in doubt as to connect the machine to the power source.

Sewing table

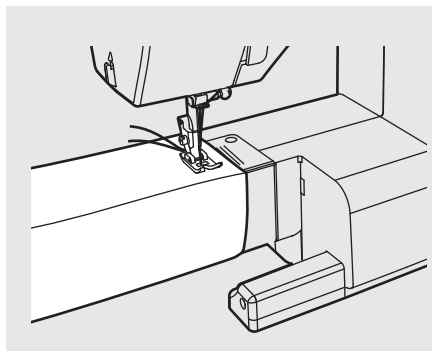


Hold the sewing table horizontally, then pull toward the left to remove it from the machine.

Attach the sewing table, and then push it to the right.



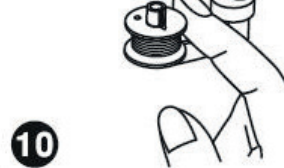
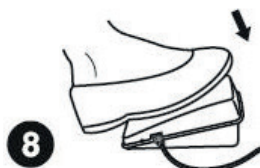
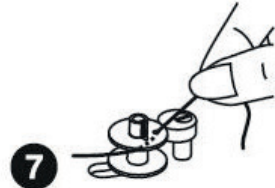
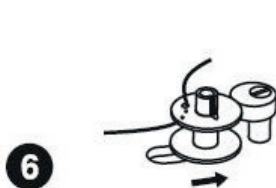
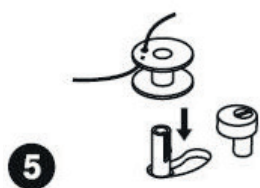
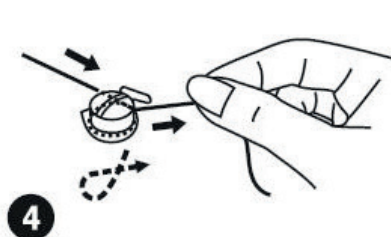
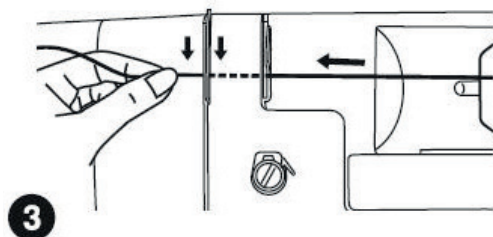
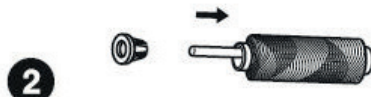
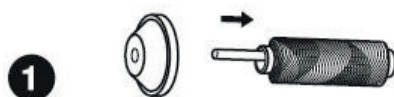
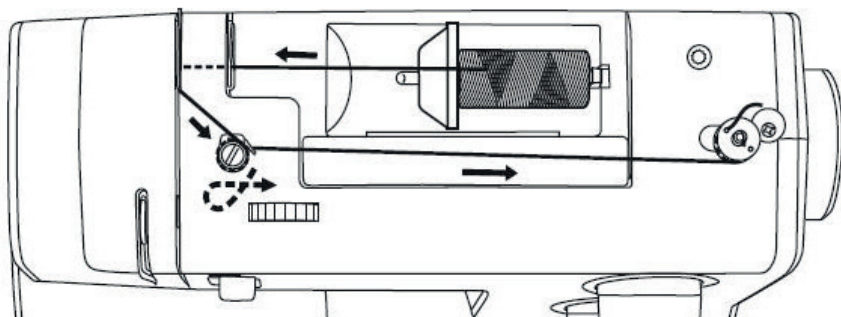
The inside of the snap-in sewing table is used as an accessory box.



Free arm

Free-arm sewing is convenient for sewing tubular areas such as pant hems and cuffs.

Winding the bobbin



READ THE STEPS ON THE NEXT PAGE

Winding the bobbin

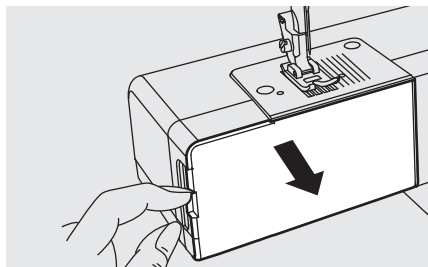
1. Place the thread and spool holder onto the spool pin.
2. Fix the thread with the spool holder.
3. Snap thread into thread guide.
4. Wind thread clockwise around bobbin winder tension discs.
5. Thread bobbin as illustrated and place on spindle.
6. Push bobbin spindle to right.
7. Hold thread end.
8. Step on foot control pedal.
9. Release the pedal after a few turns. Release the thread and cut as close as possible to the spool. Press the pedal again. Once the spool is full, it rotates slowly. Release the pedal and cut thread.
10. Push bobbin spindle to left and remove.



Please Note:

When the bobbin winder spindle is in „bobbin winding“ position, the machine will not sew and the hand wheel will not turn. To start sewing, push the bobbin winder spindle to the left (sewing position).

Inserting the bobbin



! Attention:

Turn the power switch to off ("O") before inserting or removing the bobbin.

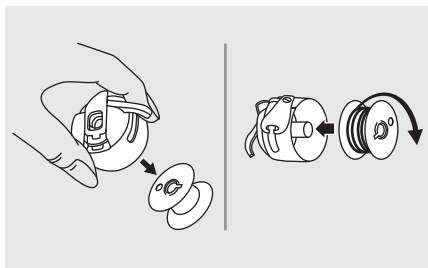
When inserting or removing the bobbin, the needle must be fully raised.

Remove the sewing table, then open the hinged cover.



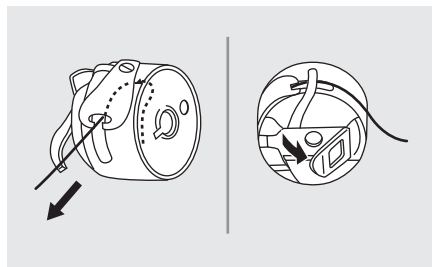
Pull the bobbin case by the hinged latch.

① Hinged latch



Remove the bobbin from the bobbin case.

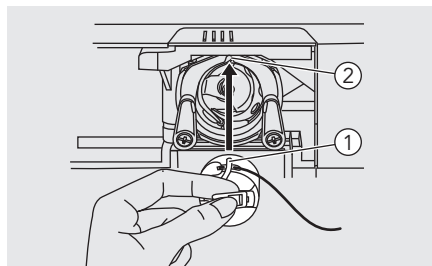
Hold the bobbin case with one hand. Insert the bobbin so that the thread runs in a clockwise direction (arrow).



Pull the thread through the slit and under the finger.

Leave a 6 inch tail of thread.

Make sure the bobbin case finger fits into the notch at the top of the race as illustrated.



① Bobbin case finger

② Notch

Hold the bobbin case by the hinged latch.

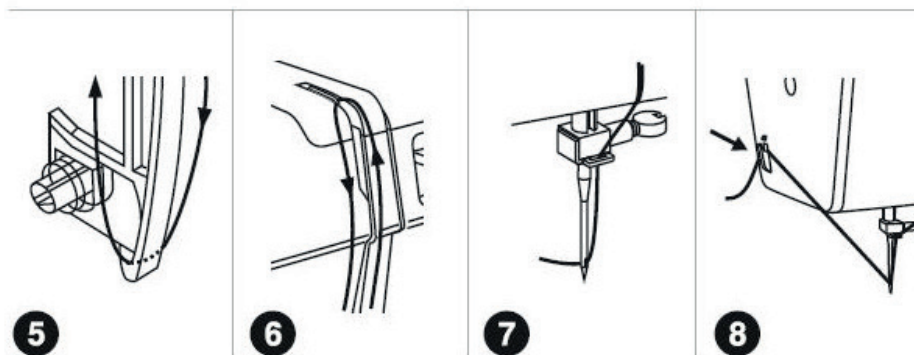
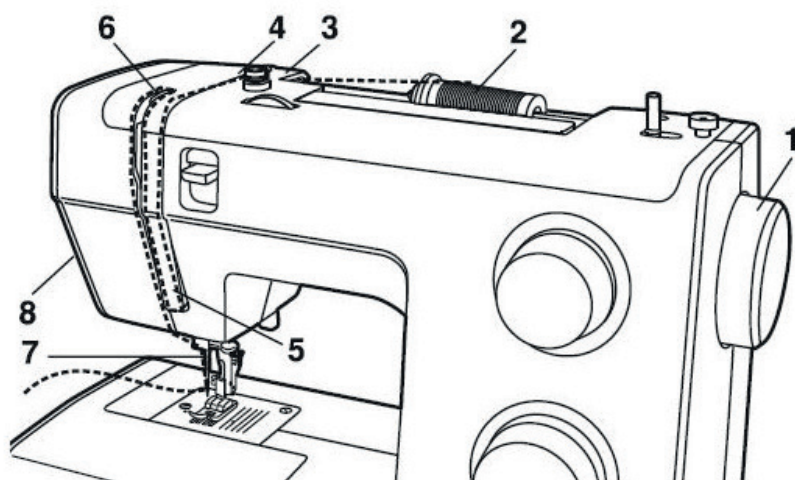
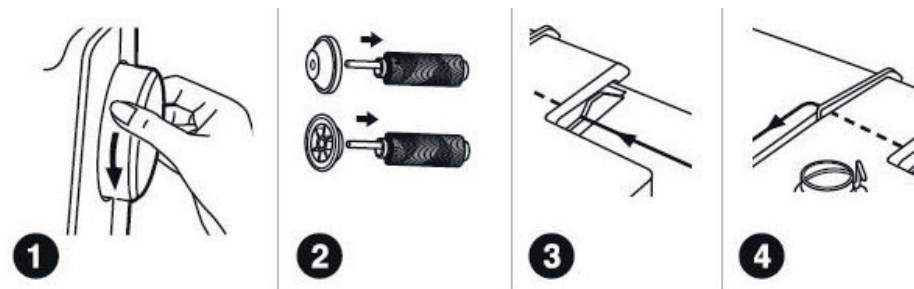
➔ **Note:**

If the bobbin case is not properly placed back into the machine, it will fall out off the shuttle immediately after starting to sew.

Threading the upper thread

➔ Please note:

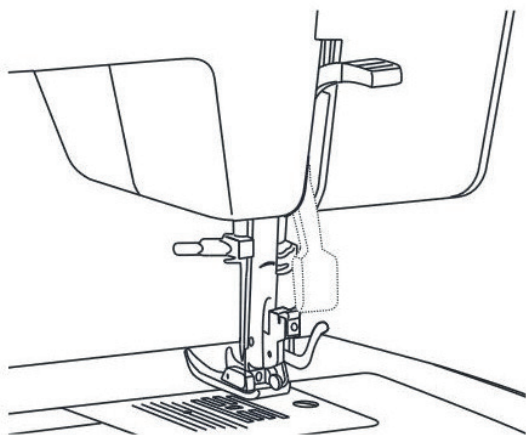
It is important to carry out the threading correctly otherwise sewing problems may result.



Threading the upper thread

1. Start by raising the needle to its highest point.
2. Continue turning the handwheel counterclockwise until the needle just slightly begins to descend. Raise the presser foot to release the tension discs.
3. Place the spool of thread on the spool pin so that the thread comes from the front of the spool, then place the spool cap at the end of the spool pin.
4. Draw thread from spool through the upper thread guide and pulling thread through pre tension spring as illustrated. (3/4)
5. Thread tension module by leading thread down right channel and up left channel. During this process it is helpful to hold the thread between the spool and thread guide.
6. At the top of this movement pass thread from right to left through the slotted eye of the take up lever and then downwards again.
7. Now pass thread behind the thin wire needle clamp guide and then down to the needle which should be threaded from front to back.
8. Pull about 15 cm. of thread to the rear beyond the needle eye. Trim thread to length with built in thread cutter.

Two-step presser foot lifter



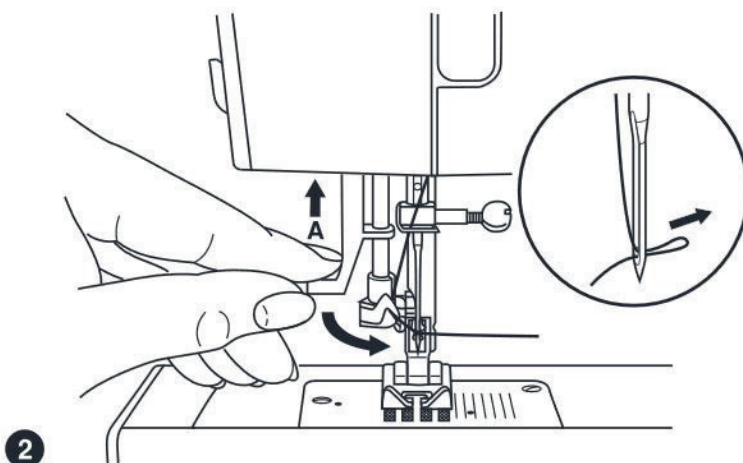
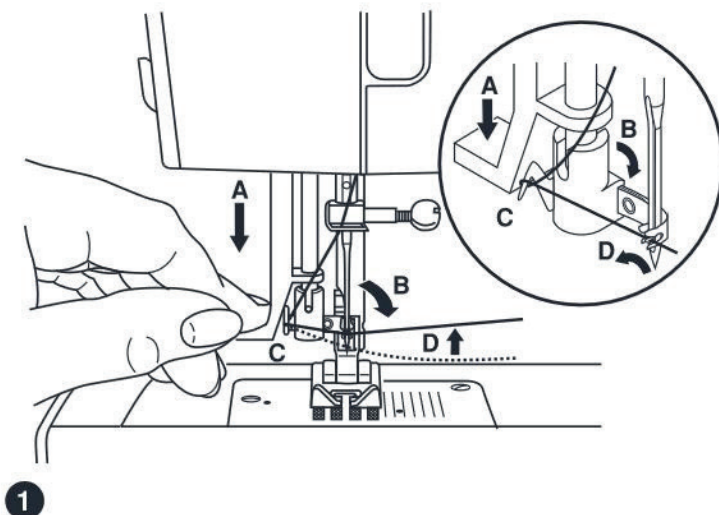
1. The presser foot lifter raises and lowers your presser foot.
2. When sewing several layers or thick fabrics, the presser foot can be raised a second stage for easy positioning of the work.



Please Note:

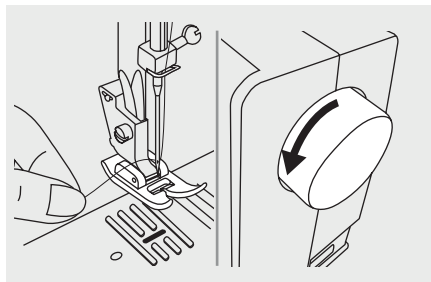
The needle must always be at the highest position.

Automatic Needle threader



1. Raise the needle to its highest position.
2. Press lever (A) down as far as it will go.
3. The threader automatically swings to the threading position (B).
4. Pass thread around thread guide (C).
5. Pass the thread in front of the needle around the hook (D) from Bottom to top.
6. Releaser lever (A).
7. Pull the thread through the needle eye.

Raising the bobbin thread

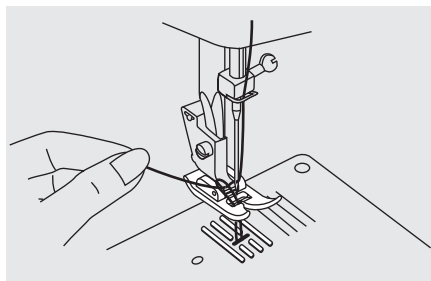


Hold the upper thread with the left hand. Turn the handwheel towards you (counterclockwise) lowering it, then raise the needle.

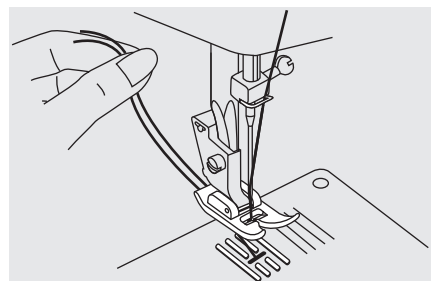


Note:

If it is difficult to raise the bobbin thread, make sure the thread is not trapped by the hinged cover or the sewing table.

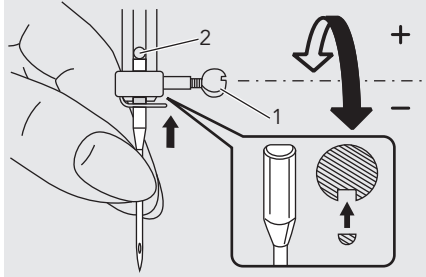


Gently pull on the upper thread to bring the bobbin thread up through the needle plate hole.



Lay both threads to the back under the presser foot.

Replacing the needle



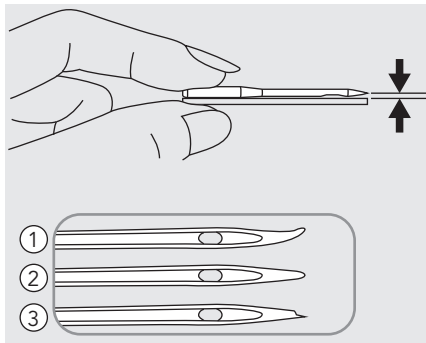
Attention:

Turn the power switch to off ("O") when carrying out any of the above operations!

Change the needle regularly, especially when it shows signs of wear or causes problems.

Insert the needle following the illustrated instructions.

1. Turn the handwheel towards you (counterclockwise) lowering, then raising the needle. Turn the needle clamp screw counterclockwise to remove the needle. The flat side of the shaft should be positioned towards the back.
2. Insert the needle as far up as it goes. Next, tighten the needle clamp.







Needles must be in perfect condition.

Problems can occur with:

- ① Bent needles
- ② Blunt needles
- ③ Damaged points

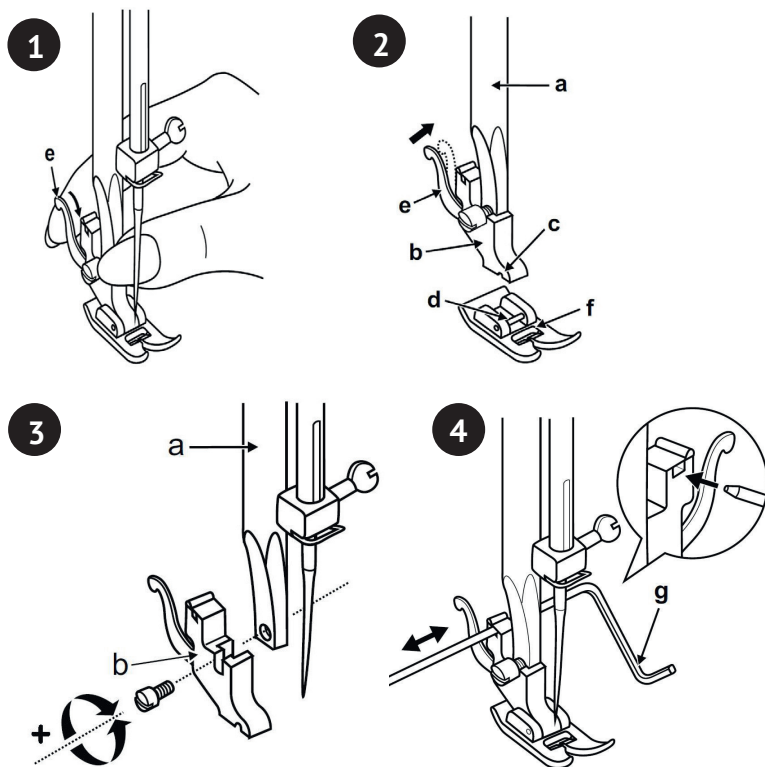
Matching needle/ fabric/ thread

NEEDLE SIZE	FABRICS	THREAD
9-11 (65-75) 	Lightweight fabrics-thin cottons, voile, serge, silk, muslin, Qiana, interlocks, cotton knits, tricot, jerseys, crepes, woven polyester, shirt & blouse fabrics.	Light-duty thread in cotton, nylon, polyester or cotton wrapped polyester.
11-14 (80-90) 	Medium weight fabrics-cotton, satin, kettleclote, sailcloth, double knits, lightweight woollens.	Most threads sold are medium size and suitable for these fabrics and needle sizes. Use polyester threads on synthetic materials and cotton on natural woven fabrics for best results. Always use the same thread on top and bottom.
14 (90) 	Medium weight fabrics-cotton duck, woolen, heavier knits, terrycloth, denim.	
16 (100) 	Heavyweight fabrics-canvas, woollens, outdoor tent and quilted fabrics, denim, upholstery material (light to medium).	

Please Note:

- In general, fine threads and needles are used for sewing fine fabrics, thicker threads and needles are used for sewing heavy fabrics.
- Always test thread and needle size on a small piece of fabric which will be used for actual sewing.
- Use the same thread for needle and bobbin.
- Use a stabilizer or place a backing for fine or stretchy fabrics, and select the correct presser foot.
- It is recommended that a 90/14 needle should be used when embroidering on heavyweight fabrics or stabilizing products (for example, denim, puffy foam, etc.). A 75/11 needle may bend or break, which could result in injury.
- For transparent nylon thread, always use needle 90/14 - 100/16. The same thread is usually used for the bobbin thread and upper threading.

Changing the presser foot



ATTENTION! Turn the power switch to off („0“) when carrying out any of the below operations!

Removing the presser foot

Raise the presser foot using the presser foot lifter. Raise the lever (e) and the foot disengages. (1)

Attaching the presser foot

Lower the presser foot shank (b) using the presser foot lifter, until the cut-out (c) is directly above the pin (d). (2) The presser foot (f) will engage automatically.

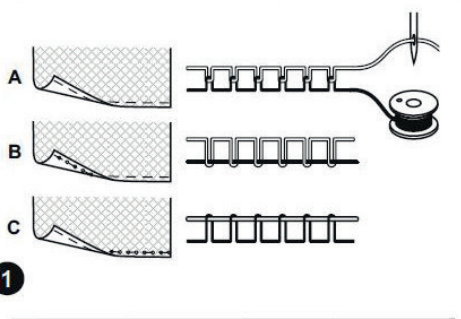
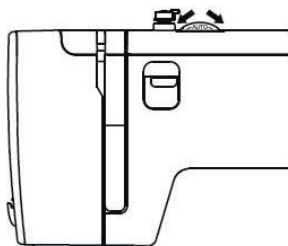
Removing and Attaching the presser foot shank

Raise the presser bar (a) with the presser foot lifter. Removing and Attaching the presser foot shank (b) as illustrated. (3)

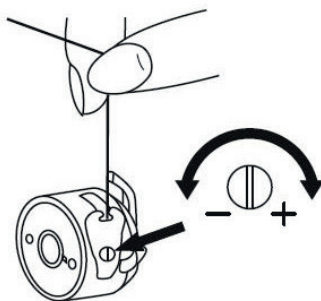
Attaching the edge/quilting guide

Attach the edge/quilting guide (g) in the slot as illustrated. Adjust as needed for hems, pleats, quilting, etc. (4)

Thread tension



1



2

Upper thread tension (1)

Basic upper thread tension setting: "AUTO".

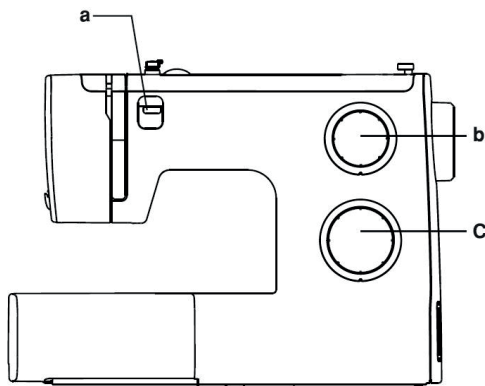
To increase the tension, turn the dial to the next higher number. To reduce the tension, turn the dial to the next lower number.

- A. Normal thread tension
- B. Upper thread tension too loose
- C. Upper thread tension too tight



Lower thread tension (2)

To test the bobbin thread tension, the full bobbin is placed in the bobbin case. The bobbin case and gripper are then suspended by the end of the thread. If the tension is correct, the thread will unwind by about 5 - 10 cm, when gently swung and will then remain suspended. If the full bobbin case unwinds, the tension is too slack. If the tension is too tight, it hardly unwinds or does not unwind at all. To adjust, use the screwdriver.

How to choose your pattern

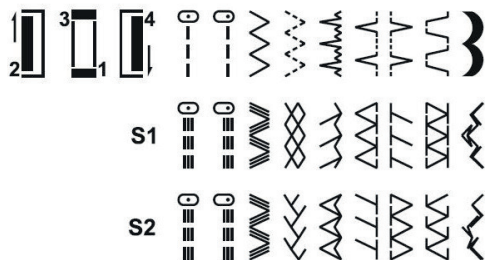


To select a stitch, simply turn the pattern selector dial. The pattern selector dial may be turned in either direction .

For straight stitch select pattern  or  with the pattern selector dial.

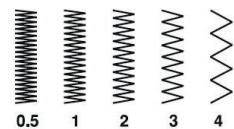
Adjust the stitch length with the stitch length dial. For zigzag stitch,

select pattern  or  with the pattern selector dial.



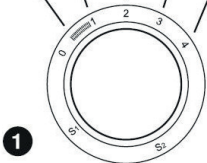
Adjust the stitch length and stitch width according to the fabric being used. To obtain the other patterns, turn the stitch length dial to „S1“ or „S2“, select the pattern desired with pattern selector dial.

- (a) Reverse lever
- (b) Stitch length dial S1-S2
- (c) Pattern selector dial



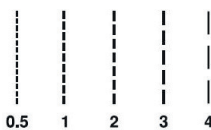
Function of stitch length dial while zig zag stitching

Set the pattern selector dial to zig-zag. The density of zig-zag stitches increases as the setting of stitch length dial approaches „0“. Neat zig-zag stitches are usually achieved at „2.5“ or below . (1)



Function of stitch length dial for straight stitching

For straight stitch sewing, turn the pattern selector dial to the straight stitch setting. Turn the stitch length dial, and the length of the individual stitches will decrease as the dial approaches „0“. The length of the individual stitches will increase as the dial approaches „4“. (2)



Generally speaking, use a longer stitch length when sewing heavier weight fabrics or when using a thicker needle or thread. Use a shorter stitch length when sewing lighter weight fabrics or when using a finer needle or thread.

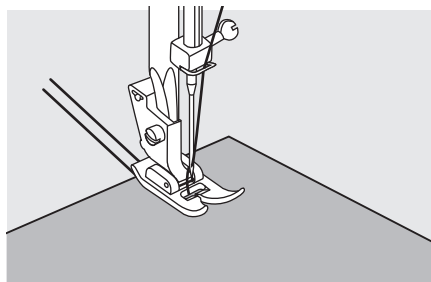
Useful skills

Various ways to achieve better results for your sewing projects are described below. Refer to these tips when sewing your project.

A trial piece of fabric should be sewn because, depending on the type of fabric and stitching being sewn, the desired results may not be achieved.

For the trial sewing, use a piece of fabric and thread that are the same as those used for your project and check the thread tension.

Since the results differ depending on the type of stitching and the number of layers of fabric sewn, perform the trial sewing under the same conditions that will be used with your project.

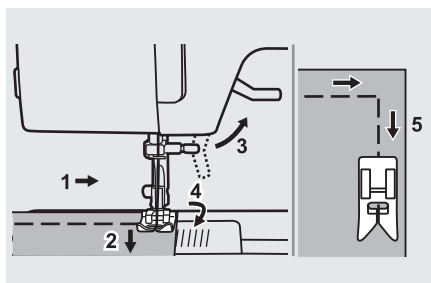


Starting to sew

Raise the presser foot and place the fabric under the foot.

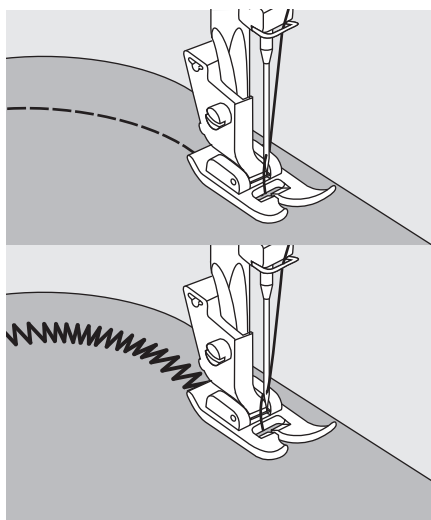
Lower the needle into the fabric.

Lower the presser foot and smooth the threads toward the back. Depress the foot control.



Sewing corners

1. Stop the sewing machine when you reach a corner.
2. Lower the needle into the fabric.
3. Raise the presser foot.
4. Use the needle as a pivot and turn the fabric.
5. Lower the presser foot and resume sewing.

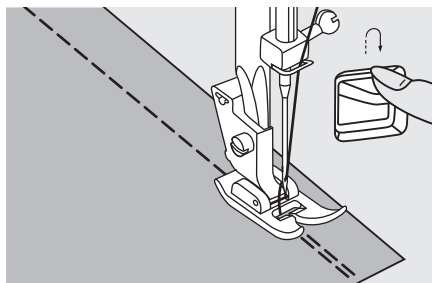


Sewing curves

Slightly change the sewing direction to sew around the curve.

When sewing along a curve while using a zigzag stitch, select a shorter stitch length in order to obtain a finer stitch.

Useful skills

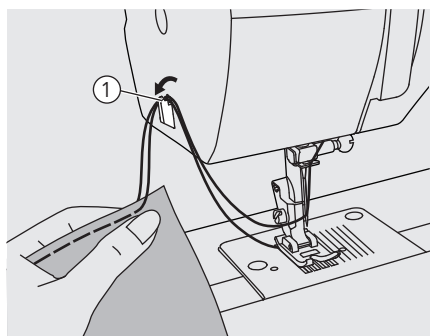


Reverse

Reverse stitching is used to secure the threads at the beginning and at the end of a seam.

Press the reverse sewing lever and sew 4-5 stitches.

The machine will sew forward when the button is released.



Cutting the thread

Bring the thread take up lever to its highest position, raise the presser foot and remove the fabric.

Guide both threads to the side of the face plate and into the thread cutter. Pull the threads down to cut them.

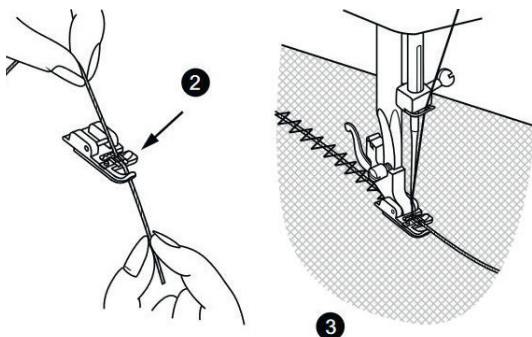
① Thread cutter

Sewing with the Cording foot



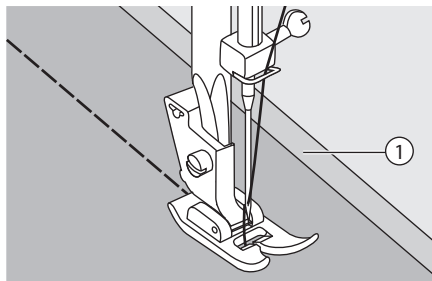
Decorative effects, cushions, tablecloths, etc.

Set the machine as illustrated. Various stitches are suitable for sewing on cord, e.g. Zig-zag, Triple zig-zag, decorative stitches. (1)



Insert the cord between the spring covering the cord groove and the foot. The cord should run in the groove. One, two or three cords can be sewn on. The stitch width is adjusted according to the number of cords and the stitch selected. (2/3)

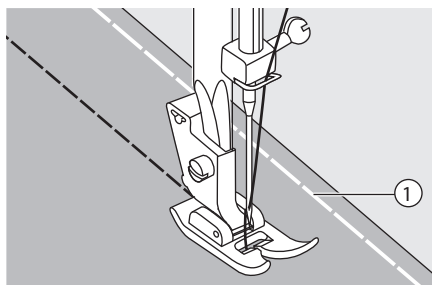
Useful skills



Sewing thin fabrics

When sewing thin fabrics, the stitching may become misaligned or the fabric may not feed correctly. If this occurs, place thin paper or stabilizer material under the fabric and sew it together with the fabric. When you have finished sewing, tear off any excess paper.

- ① Stabilizer material or paper

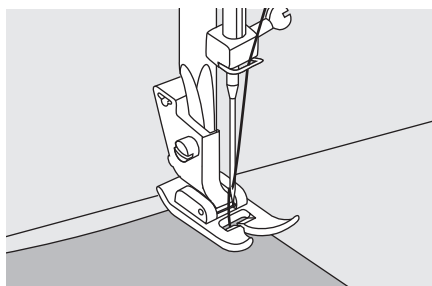


Sewing stretch fabrics

Baste the pieces of fabric together, and then sew without stretching the fabric.

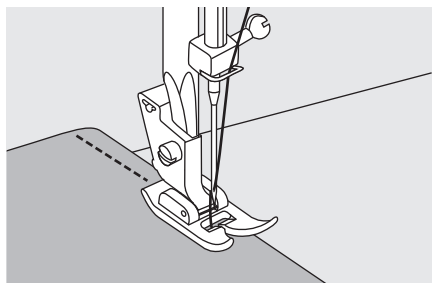
- ① Basting

Straight stitches

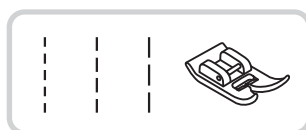


To begin sewing, set the machine for straight stitch.

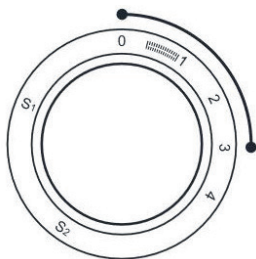
Place the fabric under the presser foot with the fabric edge lined up with the desired seam guide line on the needle plate.



Lower the presser foot lifter and then press the foot control to start sewing.

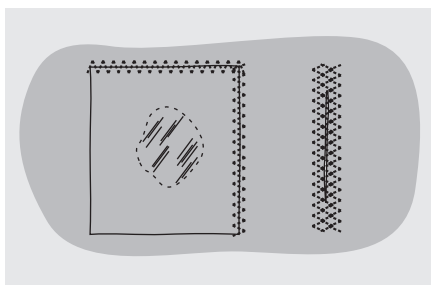


3-step zigzag



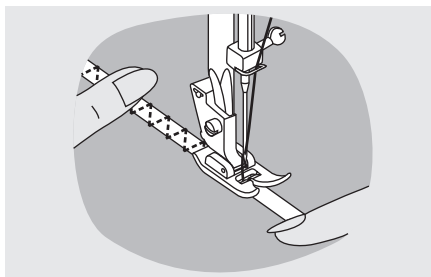
Sewing on lace and elastic, darning, mending, reinforcing edges.

Set the machine as illustrated.



Place the patch in position. The stitch length can be shortened to produce very close stitches.

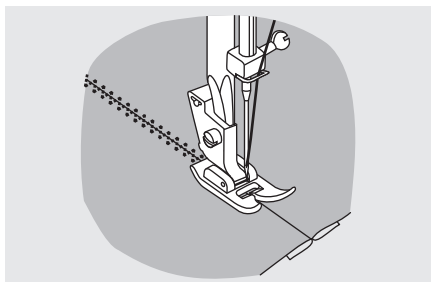
When mending tears, it is advisable to use a piece of backing fabric as reinforcement. The stitch density can be varied by adjusting the stitch length. First sew over the center and then overlap on both sides. Depending on the type of fabric and damage, sew between 3 and 5 rows.



Sewing elastic

Place the elastic on the fabric.

As you sew, stretch the elastic both ahead and behind the presser foot as illustrated.



Joining fabric

The elastic stitch can be used to join two pieces of fabric together and it is very effective when sewing knitted fabrics. If nylon thread is used, the stitch will not be visible.

Place the edges of the two pieces of fabric together and center them under the presser foot.

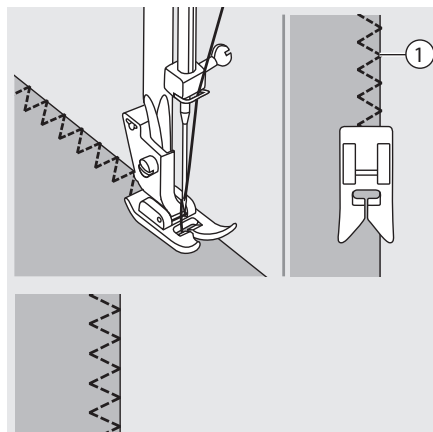
Sew them together using the elastic stitch, taking care to keep the two fabric edges close together as illustrated.

Overcasting stitches

Sewing overcasting stitches along the edge of fabric prevent it from fraying.



Using the all purpose foot

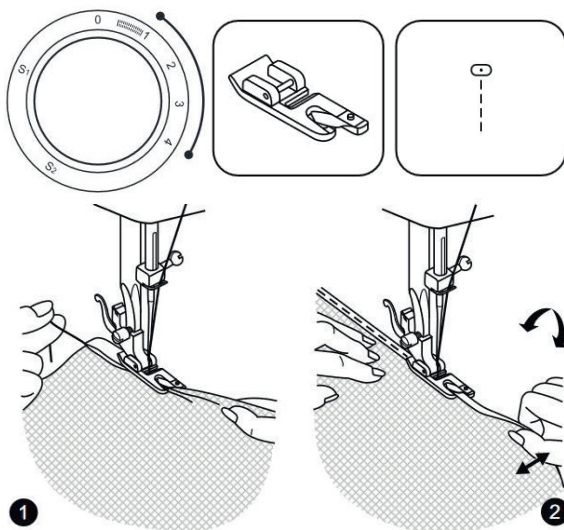


Change the presser foot to the all purpose foot.

Sewing the overcasting along the edge of the fabric so that the needle drops over the edge of the fabric on the right side.

① Needle drop point

Sewing with the Hemmer foot



For hems in fine or sheer fabrics. Set the machine as illustrated.

Neaten the edge of the fabric. At the beginning of the hem, turn under the edge twice by about 3 mm (1/8") and sew 4-5 stitches to secure. Pull the thread slightly towards the back. Insert the needle into the fabric, raise the presser foot and guide the fold into the scroll on the foot. (1)

Gently pull the fabric edge towards you and lower the presser foot. Begin sewing, guiding the fabric into the scroll by holding it upright and slightly to the left. (2)

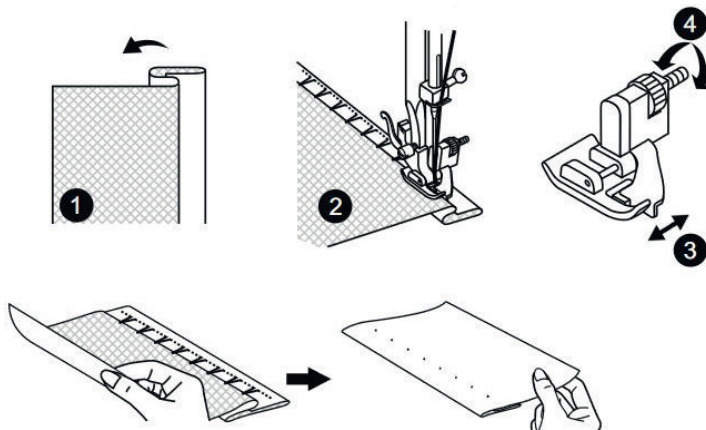
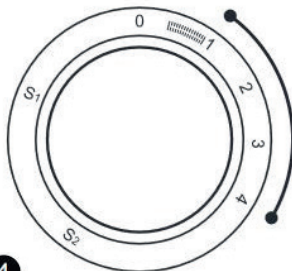
Blind Hem

Secure the bottom of skirts and pants with a blind hem, this stitch will sew without stitches showed on the right side of the fabric.



~~~~~ Blind hem for stretch fabrics.

..^.. Blind hem for firm fabrics.



1. Fold the fabric as illustrated with the left side uppermost.
2. Place the reversed fabric under the presser foot. Turn the handwheel (20) forwards by hand until the needle is fully to the left. It should just pierce the fold of the fabric. If it does not, adjust the stitch width accordingly. 3/4. Adjust the guide (3) by turning the dial (4) so that the guide just rests against the fold. Sew slowly and guide the fabric carefully so that its position does not change in relation to the guide (3).

## Blind Hem:

Turn up the hem to the desired width and press. Fold back (as shown in Fig. 1) against the right side of the fabric with the top edge of the hem extending about 7 mm (1/4") to the right side of the folded fabric.

Start to sew slowly on the fold, making sure the needle touches slightly the folded top to catch one or two fabric threads. (2)

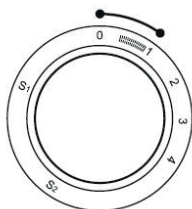
Unfold the fabric when hemming is completed and press.



# Buttonhole stitch

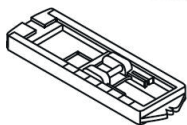
Buttonholes can be adapted to the size of the button.

For stretch fabric or thin fabric, it is recommended to use a stabilizer for a better buttonhole finish.

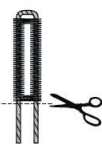
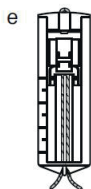
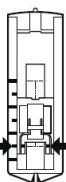
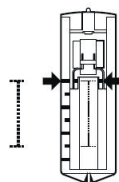



## Please Note:

Before sewing a buttonhole on your project, practice on a scrap piece of the same type of fabric.



1. Take off the all purpose foot and attach the buttonhole foot.
2. Measure diameter and thickness of button and add 0.3cm (1/8") for bartacks to obtain correct buttonhole length; mark buttonhole size on fabric (a).
3. Place fabric under the foot, so that marking on the buttonhole foot aligns with starting marking on fabric. Lower the foot, so that the buttonhole center line marked on the fabric aligns with the center of the buttonhole foot (b).



Adjust the stitch length dial in the  range to set stitch density.

Follow the 4-step sequence changing from one step to another with the pattern selector dial. When moving from step to step through the buttonhole process, be sure that the needle is raised before turning the pattern selector dial to the next step. Take care not to sew too many stitches in steps 1 and 3. Use seam ripper and cut buttonhole open from both ends towards the middle.

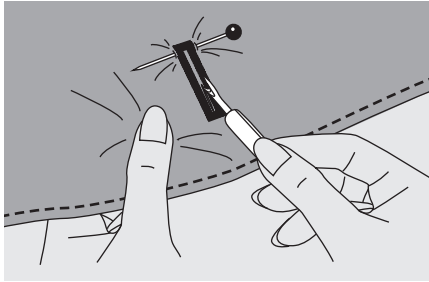
## TIPS:

Slightly reducing upper thread tension will produce better results.

Use a stabilizer for fine or stretchy fabrics.

It is advisable to use heavy thread or cord for stretch or knit fabrics. The zig-zag should sew over the heavy thread or cord. (5)

# Buttonhole stitch



Cut the center of the buttonhole being careful not to cut any stitches on either side. Use a pin on the buttonhole so you do not cut too many stitches.

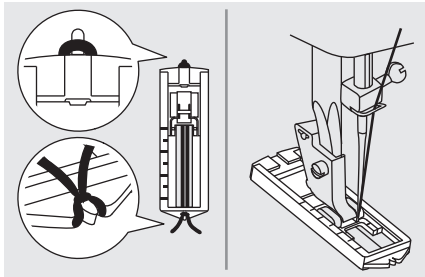


## **Please Note:**

When cutting the buttonhole with the seam ripper, do not place your hands in the cutting direction, otherwise injuries may result.

## **Making a buttonhole on stretch fabrics**

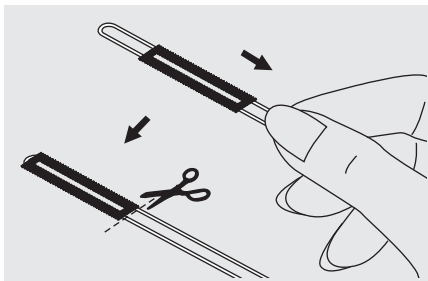
When sewing buttonholes on stretch fabric, hook heavy thread or cord under the buttonhole foot.



Attach the buttonhole foot and hook the gimp thread onto the back of the presser foot.

Bring the two gimp thread ends to the front of the foot and insert them into the grooves, then tie them there temporarily. Lower the presser foot and start sewing.

The zig-zag should sew over the heavy thread or cord.



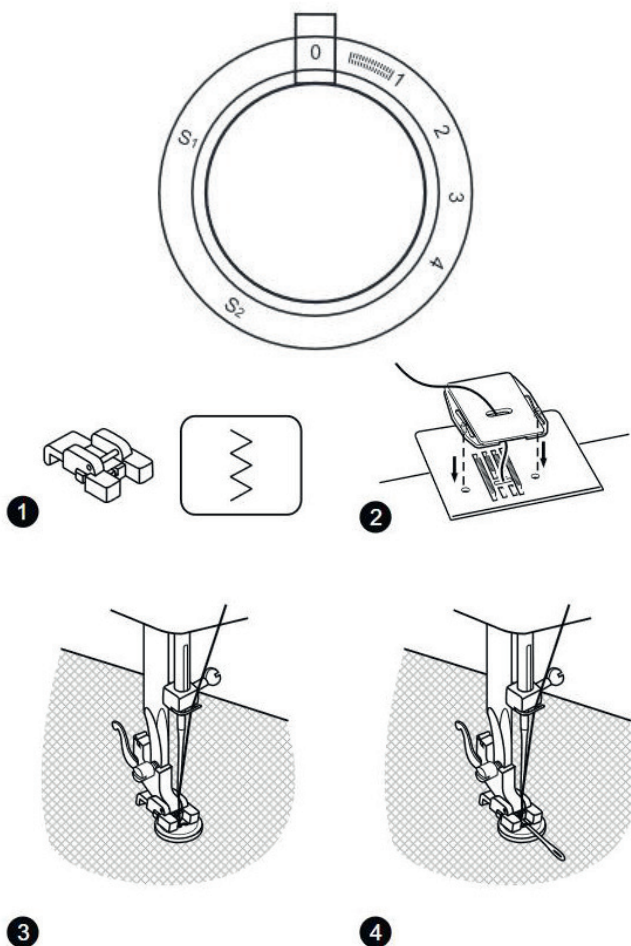
Once sewing is completed, pull the gimp thread gently to remove any slack, then trim off any excess.



## **Please Note:**

It is suggested that you use interfacing on the backside of the fabric.

# Button sewing



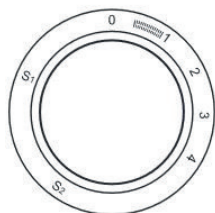
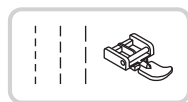
Install the darning plate. (2)

Change presser foot to button sewing foot. Position the work under the foot. (1) Place the button on the marked position and lower the foot. Set the pattern selector knob on straight stitch and sew a few securing stitches. Select the zig-zag stitch width according to the distance between the two holes of the button. Turn the handwheel to check if the needle goes into the right and the left hole of the button without any obstruction (adjust the stitch width according to the button). Slowly sew on the button with about 10 stitches. Select straight stitch pattern and sew a few securing stitches. (3)

If a shank is required, place a darning needle on top of the button and sew. (4) For buttons with 4 holes, sew through the front two holes first, push work forward and then sew through the back two holes as described.

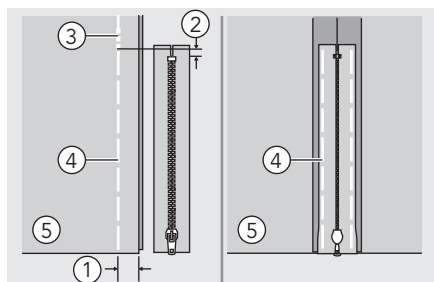
# Zipper insertion

This foot can be set to sew on each side of the zipper, the edge of the foot guides the zipper to ensure straight placement.



## Attention:

Zipper foot should be used for sewing straight stitches only. It is possible that the needle could hit the presser foot and break when sewing other patterns.

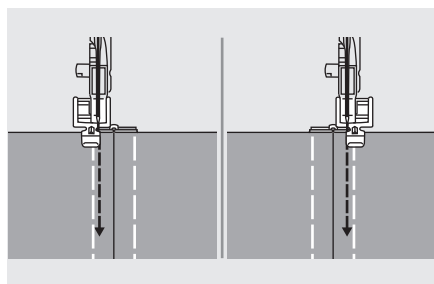


## Inserting a centered zipper

- Place the right sides of the fabric together. Sew a bottom seam 2cm from the right edge of the zipper bottom stop position. Sew a few stitches in reverse to lock. Increase the stitch length to maximum, set the tension below 2 and baste the remaining length of the fabric.

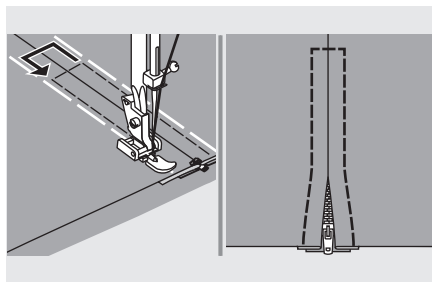
- Press open the seam allowance. Place the zipper face down on the seam allowance with the teeth against the seam line. Baste the zipper tape.

- ① 2cm
- ② 5mm
- ③ Reverse stitches
- ④ Basting stitching
- ⑤ Reverse side



- Attach the zipper foot. Attach the right side of the presser foot pin to the holder when sewing the left side of the zipper.
- Attach the left side of the presser foot pin to the presser foot holder when sewing the right side of the zipper.

# Zipper insertion



- Stitching around the zipper.

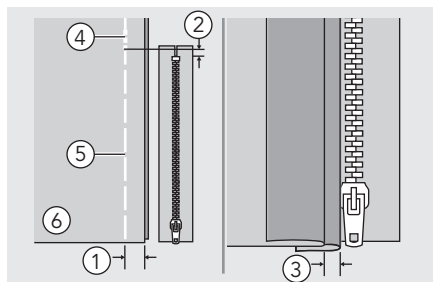


## **Please Note:**

When sewing, be sure that the needle does not touch the zipper, otherwise the needle may bend or break.

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- Remove the basting and press.

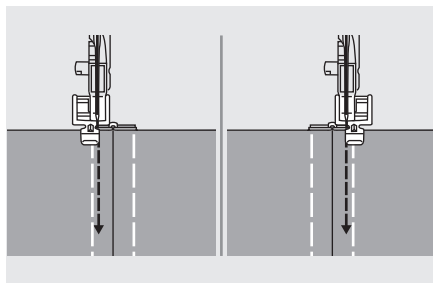


## **Inserting a side zipper**

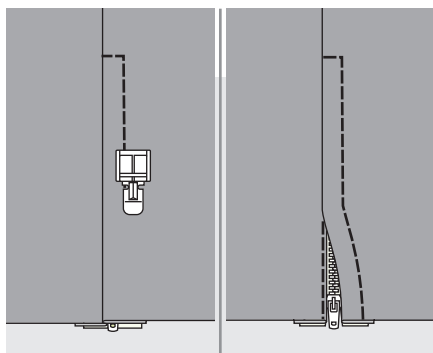
- Place the right sides of the fabric together. Sew a bottom seam 2cm from the right edge of the zipper bottom stop position. Sew a few stitches in reverse to lock. Increase the stitch length to maximum, set the tension below 2 and baste the remaining length of the fabric.
- Fold back to the left the seam allowance. Turn under the right the seam allowance to form a 3mm fold.

- ① 2cm
- ② 5mm
- ③ 3mm
- ④ Reverse stitches
- ⑤ Basting stitching
- ⑥ Reverse side

# Zipper insertion

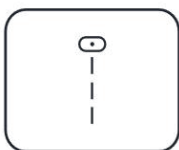
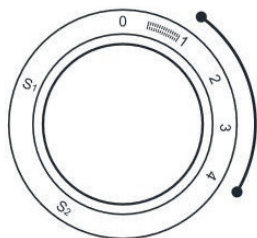


- Attach the zipper foot. Attach the right side of the presser foot pin to the holder when sewing the left side of the zipper. Attach the left side of the presser foot pin to the presser foot holder when sewing the right side of the zipper.



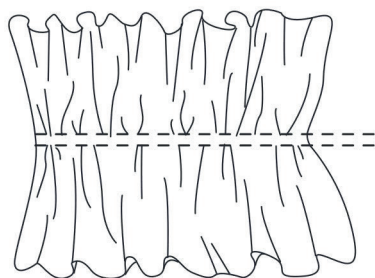
- Sew the zipper to the piece of fabric with the extra 3 mm (1/8 inch), starting from the base of the zipper. When you are about 5 cm (2 inches) from the end of the zipper, stop the sewing machine with the needle lowered (in the fabric), raise the presser foot lever, and then open the zipper and continue sewing.
- Turn the fabric right side out, stitch across the lower end and the right side of the zipper.
- Stop about 5cm (2 inches) from the top of the zipper. Remove the basting and open the zipper. Stitch the remaining of the seam.

# Gathering

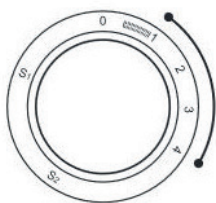


Set the Pattern Selector as illustrated.

1. Attach the gathering foot
2. Sew a single row or multiple rows of straight stitches.
3. If more gathering is required, loosen the upper thread (to about 2) so that the lower thread lies on the under side of the material.
4. Pull the lower thread to gather more of the material.

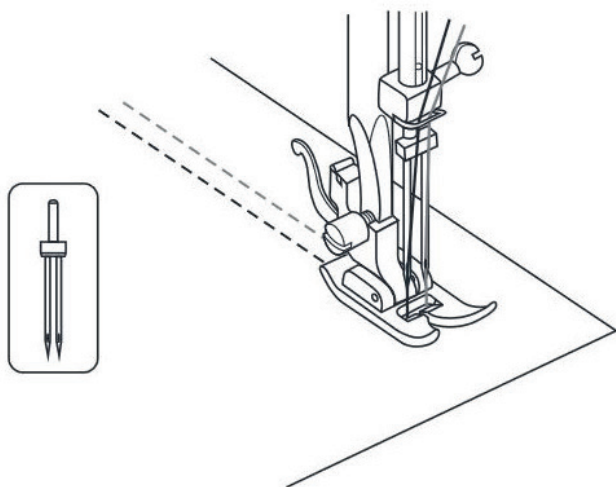
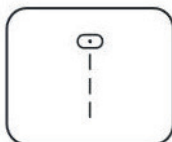


# Twin Needle



## ⤵ Attention:

Always make sure that the machine is unplugged from power source and the main switch is on ("O") when the machine is not in use and before inserting or removing parts.



## NOTE:

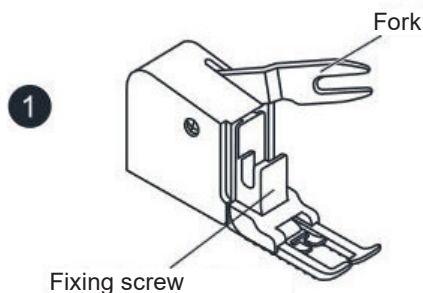
Make sure that the two threads used to thread the twin needle are of the same weight. You can use one or two colors.

Before sewing turn the handwheel to check the needle clearance, so that needle does not hit the needle plate. Select a pattern and start to sew. Two lines of stitching are sewn parallel to each other.

## NOTE:

When sewing with twin needle, always proceed slowly and make sure to maintain a low speed to insure quality stitching. The stitch width should not be set too wide when sewing with twin needles.

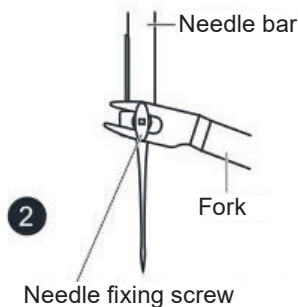
# Dual feed foot



Always try sewing without the dual feed foot first. It should only be used if necessary.

It is easier to guide the material and you have a better view of your work when using the standard foot that is usually fitted on your machine. This machine enables you to obtain excellent results when working on a very wide range of fabrics, from the most delicate muslins to multi-layered denim.

The optional dual feed foot regulates the feed of upper and lower layers of material and improves the correct positioning of checks, stripes and other design. This foot helps prevent uneven feed of fabrics that are very difficult to work with.



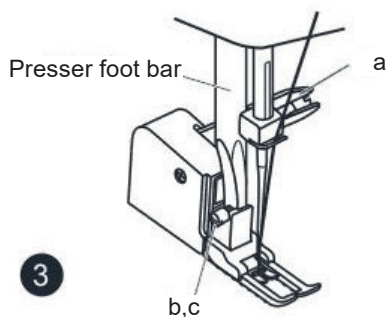
1. Raise the presser foot bar.
2. Remove the foot holder by turning the clamping screw on the bar anticlockwise. (3)
3. Fit the dual feed foot on the machine in the following manner;

The forked arm must be fitted in the needle screw clamping mechanism. (2)

Slide the plastic mounting head from left to right to install it on the presser foot bar.

Lower the presser foot bar.

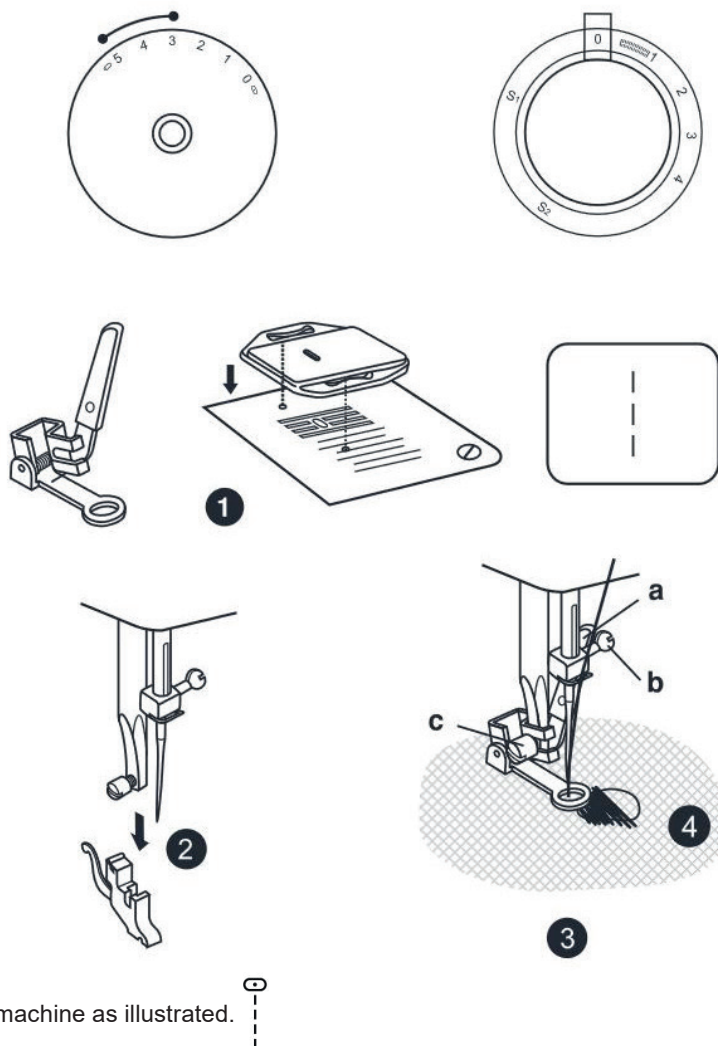
Reinstall the presser foot bar mounting screw and turn it clockwise to tighten.



4. Make sure the needle clamping screw and the presser foot bar mounting screw are both properly tightened.
5. Pull the bobbin thread upwards and place it behind the dual feed foot along with the needle thread.



# Free motion darning, embroidery and monogramming



Set the machine as illustrated.

Install the darning plate. (1)

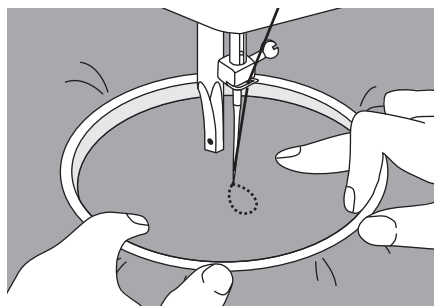
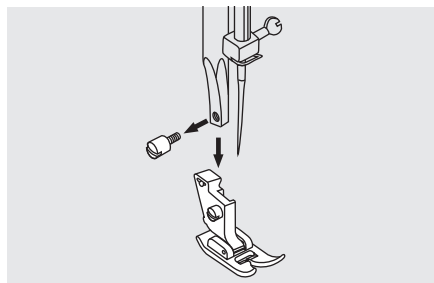
Remove the presser foot holder. (2)

Attach the darning/embroidery foot to the presser foot bar. The lever (a) should be behind the needle clamp screw (b). Press the darning/embroidery foot on firmly from behind with your index finger and tighten the screw (c). (3)

First sew round the edge of the hole (to secure the threads). (4)

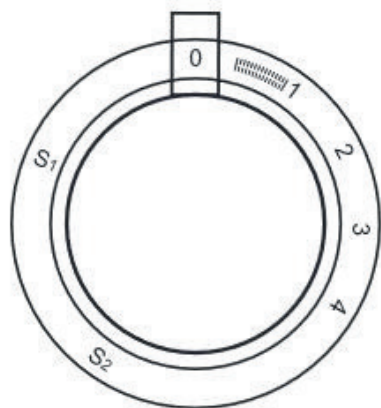
First row: Always work from left to right. Turn work by 1/4 and oversew. A darning ring is recommended for easier sewing and better results.

# Free motion darning, embroidery and monogramming



## Preparation for embroidering and monogramming

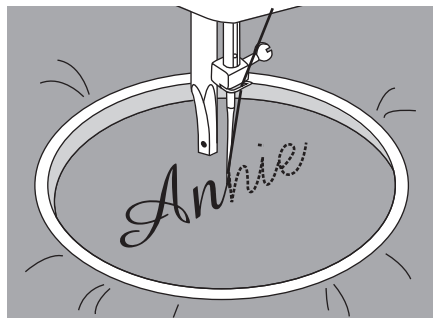
- \* Embroider hoop is not included with the machine.
- Install the darning plate, see page 35.
- Remove the presser foot and the presser foot holder.
- Draw the desired lettering or design on the right side of the fabric.
- Stretch the fabric between the embroidery hoop as firmly as possible.
- Place the fabric under the needle. Make sure the presser foot bar is down to its lowest position.
- Turn the balance wheel towards you to bring up the lower thread through the fabric. Sew a few securing stitches at the starting point.
- Hold the hoop with thumb and forefinger of both hands while pressing the material with the middle and third finger and supporting the outside of the hoop with your small finger.



## ➔ Caution:

Keep fingers away from moving parts, especially needles.

# Free motion darning, embroidery and monogramming

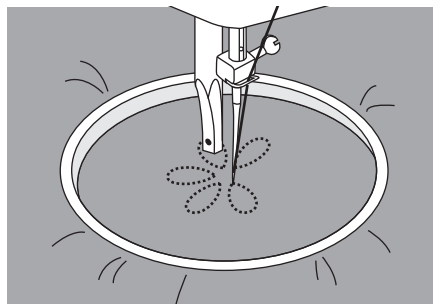


## Monogramming

Install the darning plate, see page 35.

Sew at constant speed, moving the embroidery hoop slowly along the lettering.

When the letter is finished secure with reinforcement stitches at the end of the design.

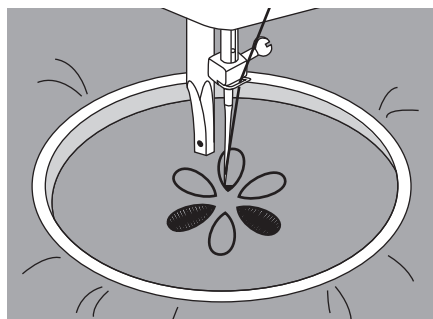


## Embroidery

Install the darning plate, see page 35.

Stitch along the outline of the design moving the embroidery hoop. Make sure to maintain a constant speed.

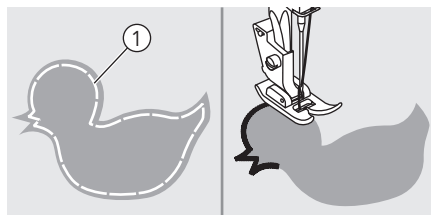
Fill in the design working from the outline towards the inside. Keep the stitches close together.



You will get longer stitches by moving the hoop faster and shorter stitches by moving the hoop slower.

Secure with reinforcement stitches at the end of the design.

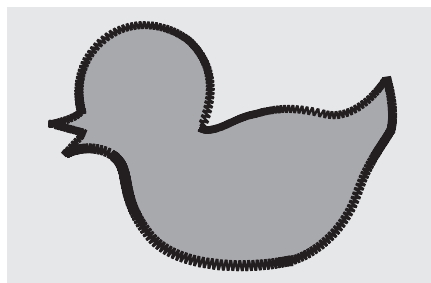
# Applique



Cut out the applique design and baste it on the fabric.

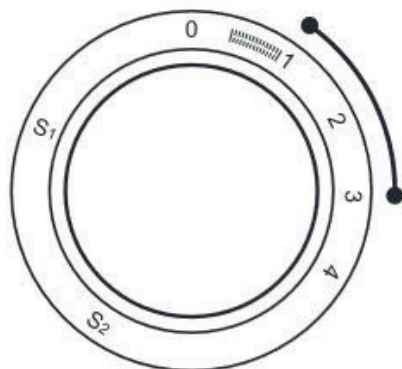
Sew slowly around the edge of the design.

① Basting



Trim the excess material outside the stitching. Make sure not to cut any stitches.

Remove the basting thread.

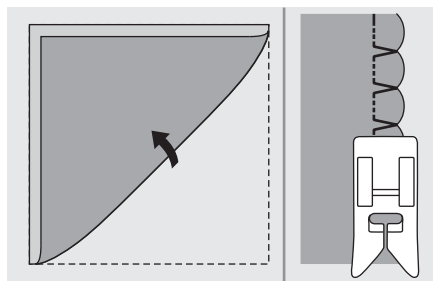


# Scallop stitching

The wave-shaped repeating pattern, that looks like shells, is called "scalloping". It is used to decorate the collar of blouses and the edges of knitting projects.



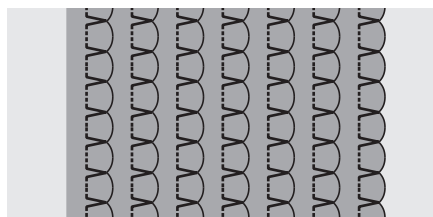
## Shell tuck stitching



Use a lightweight fabric (tricot, for example).

Fold and stitch on the bias.

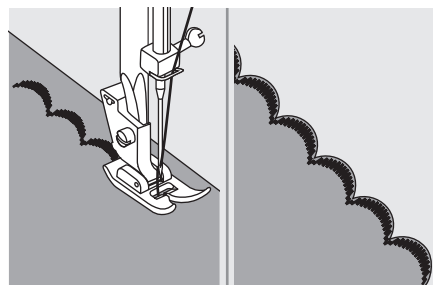
When the needle swings to the right, allow the needle to just clear the folded edge of the fabric.



After stitching, open the fabric and iron press the tucks flat to one side.



## Scallop stitching

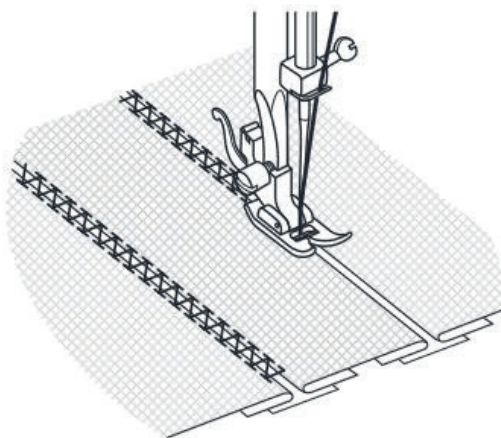
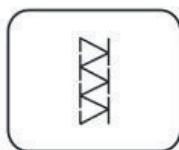
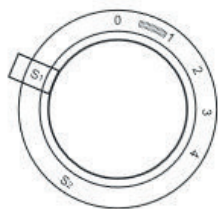


Stitch along the edge of the fabric, making sure not to sew directly on the edge of the fabric.

For better results, apply spray starch onto the fabric and press with a hot iron before it is sewn.


Trim along the stitches, be careful not to cut the stitches.

# Patchwork



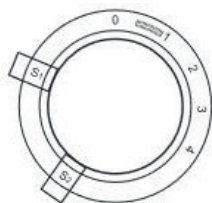
These stitches are used to join two pieces of fabric while leaving a space between their edges.

1. Fold over the edges of the two pieces of fabric for the hem and baste the edges to a thin piece of paper leaving a small space between them.

2. Set the pattern selector on 

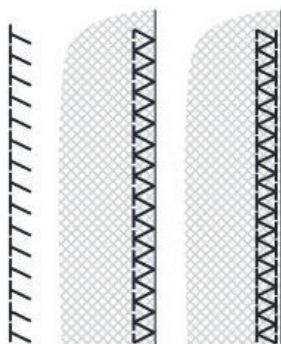
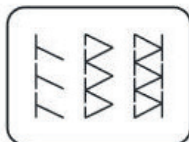
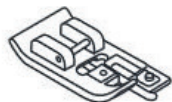
3. Stitch along the edge, pulling both threads slightly when beginning to sew. Use thicker than normal threads for sewing.
4. After sewing, remove the basting and the paper. Finish by tying knots on the reverse side at the beginning and the end of the seams.

# Overlock Stitches



## Attention:

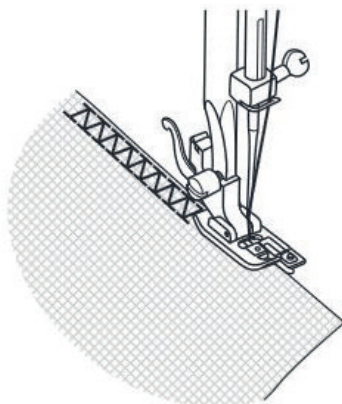
Use needles, ball point needles, or stretch needles!



1

2

3



Seams, neatening, visible hems. Turn stitch length dial to "S1" or "S2".

## Stretch overlock

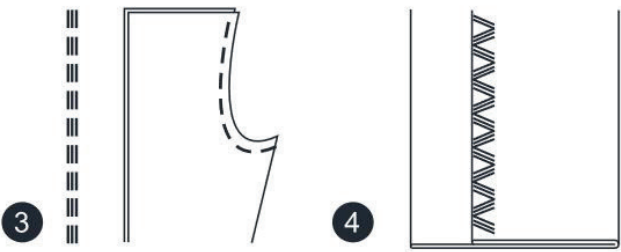
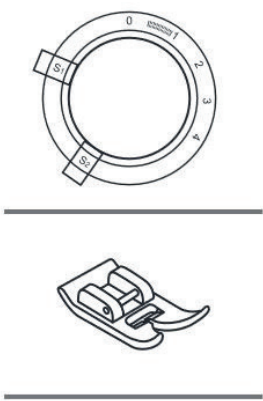
For fine knits, jerseys, neck edges, ribbing. (1,2)

## Standard overlock


For fine knits, jerseys, neck edges, ribbing. (3)

All overlock stitches are suitable for sewing and neatening edges and visible seams in one operation. When neatening, the needle should just go over the edge of the fabric.

# Stretch Stitches




## Triple straight stitch: (1/3)

For hardwearing seams.  
Turn the stitch length dial to "S1" or "S2" and select pattern  .  
Stitch width dial: choose "0".

The machine sews two stitches forwards and one stitch backwards. This gives triple reinforcement.

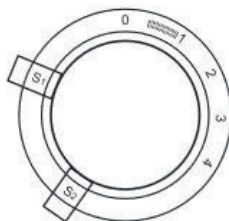
## Triple zig-zag: (2/4)

For hardwearing seams, hems and decorative seams.  
Turn the stitch length dial to "S1" or "S2" and select pattern  .  
Stitch width dial: choose 3-5.

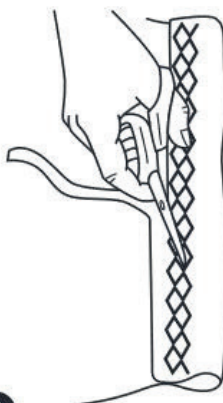
Triple zig zag is suitable for firm fabrics like denim, corduroy, etc.



# Smocking Stitch



1



2

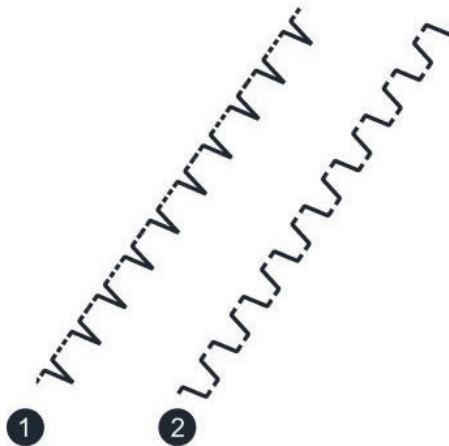
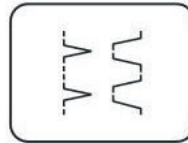
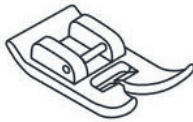
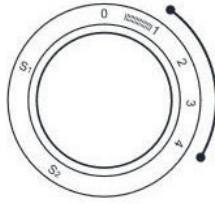
Seams, hems, T-shirts, underwear, etc.

Set the machine as illustrated. Turn the stitch length dial to "S1".

The stitch can be used for all types of jersey as well as for woven fabrics. (1)

Sew at 1cm from the fabric edge and trim the surplus fabric.

# Practical Stitches



Set the machine as illustrated. Turn the stitch length dial to suit the fabric.

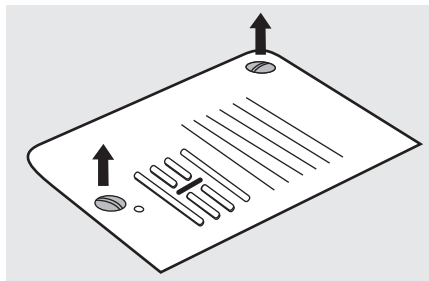
## Shell hem (1)

For decorative edges. Suitable for edges on sheer, fine and stretch fabrics. The larger stitch should go just over the edge of the fabric to create the shell effect.

## Rampart (2)

For flat joining seams, sewing on elastic, visible hems. This stitch can be used for firm, thicker fabrics.

# Maintenance

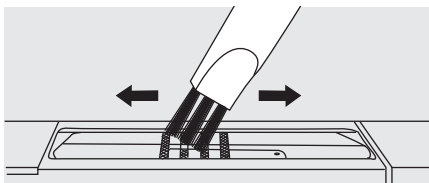


## Attention:

When cleaning the machine, it must always be disconnected from the electricity supply.

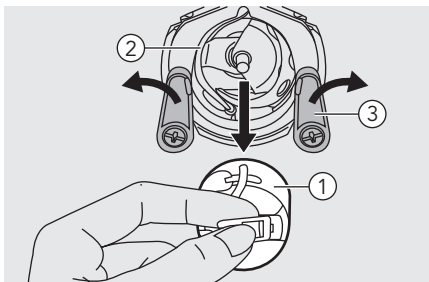
## Remove the stitch plate:

Turn the handwheel until the needle is fully raised. Open the hinged front cover and unscrew the needle plate screw with the screw driver.



## Cleaning the feed dog:

Clean the feed dog and bobbin case with a brush.

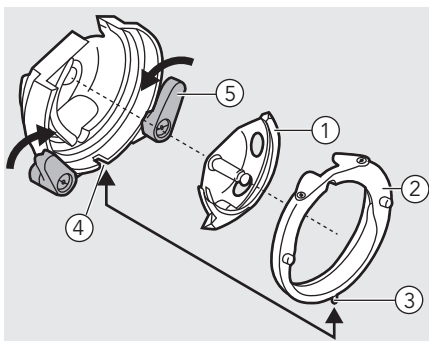


## Cleaning and lubricating the hook:

Fabric fluff and threads must be removed regularly.

Remove the bobbin case. Turn the handwheel until the hook race is in the left position. Snap the two hook retaining arms outwards. Remove the hook race cover and the hook and clean with a soft cloth. Lubricate (1-2 drops) with sewing machine oil.

- ① Bobbin case
- ② Hook race
- ③ Hook retaining arms



Replace the hook. Attach the hook race cover making sure the bottom pin fits into the notch. Snap back the two hook retaining arms. Insert the bobbin case and bobbin and replace the stitch plate.

- ① Hook
- ② Hook race cover
- ③ Pin
- ④ Notch
- ⑤ Hook retaining arms

# Trouble shooting guide

Before calling for service, check the following items. If the problem still persists, contact the place of purchase or your nearest authorized dealer.

| Problem             | Cause                                               | Correction                                                                                   | Reference |
|---------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------|-----------|
| Upper thread breaks | 1. The machine is not threaded correctly.           | 1. Rethread the machine.                                                                     | 14 - 15   |
|                     | 2. The thread tension is too tight.                 | 2. Reduce the thread tension (lower number).                                                 | 21        |
|                     | 3. The thread is too thick for the needle.          | 3. Select a larger needle.                                                                   | 19        |
|                     | 4. The needle is not inserted correctly.            | 4. Remove and reinsert the needle (flat side towards the back).                              | 18        |
|                     | 5. The thread is wound around the spool holder pin. | 5. Remove the reel and wind up the thread onto the reel.                                     | 11 - 12   |
|                     | 6. The needle is damaged.                           | 6. Replace the needle.                                                                       | 18        |
| Lower thread breaks | 1. The bobbin case is not inserted correctly.       | 1. Remove and reinsert the bobbin case and pull on the thread. The thread should run easily. | 12 - 13   |
|                     | 2. The bobbin case is threaded wrong.               | 2. Check both bobbin and bobbin case.                                                        | 11 - 13   |
| Skipped stitches    | 1. The needle is not inserted correctly.            | 1. Remove and reinsert the needle (flat side towards the back).                              | 18        |
|                     | 2. The needle is damaged.                           | 2. Insert a new needle.                                                                      | 18        |
|                     | 3. The wrong size needle has been used.             | 3. Choose a needle to suit the thread.                                                       | 19        |
|                     | 4. The foot is not attached correctly.              | 4. Check and attach it correctly.                                                            | 20        |
|                     | 5. The machine is not threaded correctly.           | 5. Rethread the machine.                                                                     | 14 - 15   |
| Needle breaks       | 1. The needle is damaged.                           | 1. Insert a new needle.                                                                      | 18        |
|                     | 2. The needle is not correctly inserted.            | 2. Insert the needle correctly (flat side towards the back).                                 | 18        |
|                     | 3. Wrong needle size for the fabric.                | 3. Choose a needle to suit the thread and fabric.                                            | 19        |
|                     | 4. The wrong foot is attached.                      | 4. Select the correct foot.                                                                  | 19        |
|                     | 5. The needle clamp screw is loose.                 | 5. Use the screwdriver to tighten the screw.                                                 | 18        |

# Trouble shooting guide

| Problem                | Cause                                                                                            | Correction                                                                                                            | Reference |
|------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------|
| Needle breaks          | 6. The presser foot that is used is not appropriate for the type of stitch that you wish to sew. | 6. Attach the presser foot that is appropriate for the type of stitch that you wish to sew.                           | 19        |
|                        | 7. The upper thread tension is too tight.                                                        | 7. Loosen the upper thread tension.                                                                                   | 21        |
| Loose stitches         | 1. The machine is not correctly threaded.                                                        | 1. Check the threading.                                                                                               | 14 - 15   |
|                        | 2. The bobbin case is not threaded correctly.                                                    | 2. Thread the bobbin case as illustrated.                                                                             | 12 - 13   |
|                        | 3. Needle/ fabric/ thread combination is wrong.                                                  | 3. The needle size must suit the fabric and thread.                                                                   | 19        |
|                        | 4. The thread tension is wrong.                                                                  | 4. Correct the thread tension.                                                                                        | 21        |
| Seam gather or pucker  | 1. The needle is too thick for the fabric.                                                       | 1. Select a finer needle.                                                                                             | 19        |
|                        | 2. The thread tension is too tight.                                                              | 2. Loosen the thread tension.                                                                                         | 21        |
| Seam puckering         | 1. The needle thread tension is too tight.                                                       | 1. Loosen the thread tension.                                                                                         | 21        |
|                        | 2. The needle thread is not threaded correctly.                                                  | 2. Rethread the machine.                                                                                              | 14 - 15   |
|                        | 3. The needle is too heavy for the fabric being sewn.                                            | 3. Choose a needle to suit the thread and fabric.                                                                     | 19        |
|                        | 4. If you are sewing on thin fabric.                                                             | 4. Sew with a stabiliser material under the fabric.                                                                   | 19        |
| Patterns are distorted | 1. The correct presser foot is not used.                                                         | 1. Select the correct foot.                                                                                           | 19        |
|                        | 2. The needle thread tension is too tight.                                                       | 2. Loosen the thread tension.                                                                                         | 21        |
| The machine jams       | 1. Thread is caught in the hook.                                                                 | 1. Remove the upper thread and bobbin case, turn the handwheel backwards and forwards and remove the thread remnants. | 47        |
|                        | 2. The feed dogs are packed with lint.                                                           | 2. Remove the stitch plate and clean the feed dogs.                                                                   | 47        |
| The machine is noisy   | 1. Fluff or oil have collected on the hook or needle bar.                                        | 1. Clean the hook and feed dog.                                                                                       | 47        |
|                        | 2. The needle is damaged.                                                                        | 2. Replace the needle.                                                                                                | 18        |
|                        | 3. Slight humming sound coming from internal motor.                                              | 3. Normal.                                                                                                            | -         |

# Trouble shooting guide

| Problem                            | Cause                                  | Correction                                                                                                            | Reference |
|------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------|
| The machine is noisy               | 4. Thread is caught in the hook.       | 1. Remove the upper thread and bobbin case, turn the handwheel backwards and forwards and remove the thread remnants. | 47        |
|                                    | 5. The feed dogs are packed with lint. | 2. Remove the stitch plate and clean the feed dogs.                                                                   | 47        |
| Uneven stitches, uneven feed       | 1. Poor quality thread.                | 1. Select a better quality thread.                                                                                    | 19        |
|                                    | 2. The bobbin case is threaded wrong.  | 2. Remove the bobbin case and the thread and reinsert them correctly.                                                 | 11 - 13   |
|                                    | 3. Fabric has been pulled on.          | 3. Do not pull on the fabric while sewing, let it be taken up by the machine.                                         | -         |
| The sewing machine doesn't operate | 1. The machine is not turned on.       | 1. Turn on the machine.                                                                                               | 9         |
|                                    | 2. The machine is not plugged in.      | 2. Connect the power line plug to the electric outlet.                                                                | 9         |

# Disposal



Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.

Contact your local government for information regarding the collection systems available.

If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposal at least for free of charge.

